

No.

200300005

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

University of Georgia Research Foundation, Inc. (UGARF) and
Florida Agricultural Experiment Station (FAES)

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED, HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW. NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

'AGS 2485'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this sixteenth day of September, in the year two thousand three.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



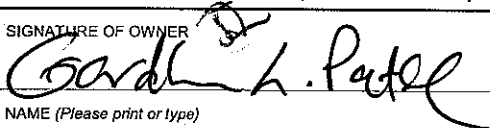
U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

1. NAME OF OWNER University of Georgia Research Foundation, Inc. (UGARF) and Florida Agricultural Experiment Stations (FAES)		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME GA92485E15		3. VARIETY NAME AGS 2485 AGS485 MAH 11/20/02	
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) Boyd Graduate Studies Research Center, 6th Floor D.W. Brooks Drive Athens, GA 30602-7411		5. TELEPHONE (include area code) 706-542-5944		FOR OFFICIAL USE ONLY PVPO NUMBER 200300005	
		6. FAX (include area code) 706-542-3837			
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Corporation (UGARF) and University		8. IF INCORPORATED, GIVE STATE OF INCORPORATION Georgia (UGARF)		9. DATE OF INCORPORATION November 17, 1978	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) University of Georgia Research Foundation, Inc. and Florida Agricultural Experiment Stations c/o John Ingle Boyd Graduate Studies Research Center, 6th Floor Athens, GA 30602-7411				FILING DATE October 9, 2002	
				FILING AND EXAMINATION FEES: \$ 2705.00 DATE 10/9/2002 CERTIFICATION FEE: \$ 430.00 DATE 3/25/03	
11. TELEPHONE (Include area code) 706-542-5944	12. FAX (Include area code) 706-542-3837	13. E-MAIL kmb@ovpr.uga.edu		14. CROP KIND (Common Name) Wheat, common	
15. GENUS AND SPECIES NAME OF CROP Triticum aestivum		16. FAMILY NAME (Botanical) Gramineae		17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input type="checkbox"/> NO	
18. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse) a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input checked="" type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$2,705), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		19. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? See Section 83(a) of the Plant Variety Protection Act <input type="checkbox"/> YES (If "yes", answer items 20 and 21 below) <input checked="" type="checkbox"/> NO (If "no", go to item 22)			
		20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? IF YES, SPECIFY THE <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED NUMBER 1,2,3, etc. (If additional explanation is necessary, please use the space indicated on the reverse.)			
22. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		23. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)			
24. The owners declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate. The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Owner(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.					
SIGNATURE OF OWNER 		SIGNATURE OF OWNER			
NAME (Please print or type) Gordhan L. Patel		NAME (Please print or type)			
CAPACITY OR TITLE Executive Vice President		DATE 10/7/02		CAPACITY OR TITLE DATE	

GENERAL: To be effectively filed with the Plant Variety Protection Office (PVPO), **ALL** of the following items must be received in the PVPO: (1) Completed application form signed by the owner; (2) completed exhibits A, B, C, E; (3) for a seed reproduced variety at least 2,500 viable untreated seeds, for a hybrid variety at least 2,500 untreated seeds of each line necessary to reproduce the variety, or for tuber reproduced varieties verification that a viable (in the sense that it will reproduce an entire plant) tissue culture will be deposited and maintained in an approved public repository; (4) check drawn on a U.S. bank for \$2,705 (\$320 filing fee and \$2,385 examination fee), payable to "Treasurer of the United States" (See Section 97.6 of the Regulations and Rules of Practice.) Partial applications will be held in the PVPO for not more than 90 days, then returned to the applicant as unfilled. Mail application and other requirements to Plant Variety Protection Office, AMS, USDA, Room 401, NAL Building, 10301 Baltimore Avenue, Beltsville, MD 20705-2351. Retain one copy for your files. All items on the face of the application are self explanatory unless noted below. Corrections on the application form and exhibits must be initialed and dated. **DO NOT** use masking materials to make corrections. If a certificate is allowed, you will be requested to send a check payable to "Treasurer of the United States" in the amount of \$320 for issuance of the certificate. Certificates will be issued to owner, not licensee or agent.

Plant Variety Protection Office

Telephone: (301) 504-5518

FAX: (301) 504-5291

Homepage: <http://www.ams.usda.gov/science/pvpo/pvp.htm>

ITEM

- 18a. Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) evidence of uniformity and stability; and (4) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified
- 18b. Give a summary of the variety's distinctness. Clearly state how this application variety may be distinguished from all other varieties in the same crop. If the new variety is most similar to one variety or a group of related varieties:
- (1) identify these varieties and state all differences objectively;
 - (2) attach statistical data for characters expressed numerically and demonstrate that these are clear differences; and
 - (3) submit, if helpful, seed and plant specimens or photographs (prints) of seed and plant comparisons which clearly indicate distinctness.
- 18c. Exhibit C forms are available from the PVPO Office for most crops; specify crop kind. Fill in Exhibit C (Objective Description of Variety) form as completely as possible to describe your variety.
- 18d. Optional additional characteristics and/or photographs. Describe any additional characteristics that cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the characteristics that are difficult to describe, such as plant habit, plant color, disease resistance, etc.
- 18e. Section 52(5) of the Act requires applicants to furnish a statement of the basis of the applicant's ownership. An Exhibit E form is available from the PVPO.
19. If "Yes" is specified (*seed of this variety be sold by variety name only, as a class of certified seed*), the applicant **MAY NOT** reverse this affirmative decision after the variety has been sold and so labeled, the decision published, or the certificate issued. However, if "No" has been specified, the applicant may change the choice. (See *Regulations and Rules of Practice, Section 97.103*).
22. See Sections 41, 42, and 43 of the Act and Section 97.5 of the regulations for eligibility requirements.
23. See Section 55 of the Act for instructions on claiming the benefit of an earlier filing date.

21. CONTINUED FROM FRONT (Please provide a statement as to the limitation and sequence of generations that may be certified.)

~~**22. CONTINUED FROM FRONT** (Please provide the date of first sale, disposition, transfer, or use for each country and the circumstances, if the variety (including any harvested material) or a hybrid produced from this variety has been sold, disposed of, transferred, or used in the U.S. or other countries.)~~

23. CONTINUED FROM FRONT (Please give the country, date of filing or issuance, and assigned reference number, if the variety or any component of the variety is protected by intellectual property right (Plant Breeder's Right or Patent).)

NOTES: It is the responsibility of the applicant/owner to keep the PVPO informed of any changes of address or change of ownership or assignment or owner's representative during the life of the application/certificate. There is no charge for filing a change of address. The fee for filing a change of ownership or assignment or any modification of owner's name is specified in Section 97.175 of the regulations. (See Section 101 of the Act, and Sections 97.130, 97.131, 97.175(h) of the Regulations and Rules of Practice.)

To avoid conflict with other variety names in use, the applicant must check the appropriate recognized authority. For example, for agricultural and vegetable crops, contact: Seed Branch, AMS, USDA, Room 213, Building 306, Beltsville Agricultural Research Center--East, Beltsville, MD 20705. Telephone: (301) 504-8089. <http://www.ams.usda.gov/lsg/seed.htm>

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 3.0 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

S&T-470 (07-01) designed by the Plant Variety Protection Office with WordPerfect 9.0. Replaces STD-470 (04-01) which is obsolete.

Exhibit A

Origin and Breeding History of AGS 485 'AGS 2485'

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11/20/02

'AGS 485' (GA 92495E15) winter wheat (Triticum aestivum L.), was cooperatively developed and released by the Georgia and Florida Agricultural Experiment Stations in 2002. AGS 485 was derived from a single cross, GA831276/GA861278 ('Saluda'/FL74265)/('GA-Gore' / 'Florida 302'). The pedigree of Saluda (VA 79-54-254) is VA 71-54-147/Coker 68-15; the pedigree of GA-Gore (GA 79118) is Coker 797/Stacy; and the pedigree of FL 302 is Coker 65-20//Purdue 4946A4-18-2-10-1/Hadden/3/Vogel 5/ Anderson//Purdue 4946A4-18-2-10-1/Hadden. FL 74265 is an experimental line with the pedigree (Predgornaia 2 /3/Blueboy II/Coker 68-8//Fulbarn) and has good leaf rust resistance.

The cross of AGS 485 was made in the fall of 1991. The F1 was grown in the during the fall of 1992. The population was advanced from the F2 through F5 generations using the pedigree method of breeding with individual spikes selected for resistance to leaf rust (caused by *Puccinia recondita* (Roberge ex Desmaz), powdery mildew (caused by *Erysiphe graminis* DC. f. sp. *tritici* Em. Marchal), and septoria nodorum blotch (caused by *Stagonospora nodorum* (Berk) Castellani & E.G. Germano). Spikes were harvested, threshed individually and planted in single 1 meter headrows and were advanced to the next generation during the F2:3-, F3:4-, and F4:5-derived lines at Plains, GA. AGS 485 is the F5:derived head row selected and advanced to Breeder seed which was produced in 2002 in the F10 generation.

AGS 485 was evaluated as GA92485E15 for agronomic performance in nursery plots in 1998, GA-FL state trials at five locations from 1999 to 2001, and in the Uniform Southern Soft Red Winter Wheat Nursery at 25 locations in 2001 and 2002.

A increase strip of AGS 485 was planted in 2001 from a small increase plot and was rogued thoroughly for aberrant types. Seeds from this increase strip was planted in a increase block (2 acres) of AGS 485 was planted in 2002 at the Foundation Seed Farm and rogued to remove variants. AGS 485 has been observed for 3 generations of reproduction and during seed increase period and is stable and uniform. The variant consists of 2/10,000 early-awned types and 2/10,000 of taller types.

This Breeder seed of AGS 485 was provided to the Georgia Seed Development Commission and will be the source of future seed multiplications. Breeder seed of AGS485 will be maintained by the Georgia Agricultural Experiment Station, University of Georgia, Georgia Station, Griffin, GA 30223-1797.

Exhibit B

Novelty Statement

AGS 2485 is a soft red winter wheat, awned, and white chaffed. AGS 2485 is most similar in appearance to 'Florida 302'. AGS 2485 does not have the occasional inverted florets and supernumerary spikelets while Florida 302 has inverted florets and supernumerary spikelets (as described in the PVP of Florida 302).

U.S. DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE

SCIENCE DIVISION

BELTSVILLE, MARYLAND 20705

OBJECTIVE DESCRIPTION OF VARIETY

WHEAT (*Triticum* spp.)

NAME OF APPLICANT(S) University of Georgia Research Foundation, Inc. and Florida Agricultural Experiment Stations (FAES) ADDRESS (Street No. or R.F.D. No., City, state, and Zip Code) Boyd Graduate Studies Bldg. University of Georgia Athens, GA 30602	FOR OFFICIAL USE ONLY
	PVPO NUMBER
	VARIETY NAME AGS 485 'AGS 2485' TEMPORARY OR EXPERIMENTAL DESIGNATION 200300005

PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g. or) when number is either 99 or less 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used:

Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

1

1 = Common

2 = Durum

3 = Club

4 = Other (SPECIFY)

2. VERNALIZATION:

2

1 = Spring

2 = Winter

3 = Other (SPECIFY)

3. COLEOPTILE ANTHOCYANIN:

1

1 = Absent

2 = Present

4. JUVENILE PLANT GROWTH:

2

1 = Prostrate

2 = Semi-erect

3 = Erect

5. PLANT COLOR (boot stage):

2

1 = Yellow - Green

2 = Green

3 = Blue - Green

6. FLAG LEAF (boot stage):

1

1 = Erect

2 = Recurved

1

Not Twisted

2 = Twisted

7. EAR EMERGENCE:

0 1
0 5

Number of Days Earlier Than

AGS 2000

Number of Days La

Coker 9835

8. ANTER COLOR:

1

1 = YELLOW

2 = PURPLE

9. PLANT HEIGHT (from soil to top of head, excluding awns):

0 8
0 1

cm Taller Than

Coker 9835

cm Shorter Than

AGS 2000

10. STEM:

A. ANTHOCYANIN

☐ 1 1 = Absent 2 = Present

B. WAXY BLOOM

☐ 1 1 = Absent 2 = Present

C. HAIRINESS (last internode of rachis)

☐ 1 1 = Absent 2 = Present

D. INTERNODE (SPECIFY NUMBER) _____

☐ 1 1 = Hollow 2 = Semi-solid 3 = Solid

E. PEDUNCLE

☐ 2 1 = Absent 2 = Present

☐ 21 cm Length

11. HEAD (at Maturity)

A. DENSITY

☐ 2 1 = Lax 2 = Middense 3 = Dense

B. SHAPE

☐ 4 1 = Tapering 2 = Strap 3 = Clavate 4 = Other (SPECIFY) oblong

C. CURVATURE

☐ 1 1 = Erect 2 = Inclined 3 = Recurved

D. AWNEDNESS

☐ 4 1 = Awnless 2 = Apically Awnletted 3 = Awnletted 4 = Awned

12. GLUMES (at Maturity)

A. COLOR

☐ 1 1 = White 2 = Tan 3 = Other (SPECIFY) _____

B. SHOULDER

☐ 3 1 = Wanting 2 = Oblique 3 = Rounded 4 = Awned 5 = Elevated 6 = Apiculate

C. BEAK

☐ 2 1 = Obtuse 2 = Acute 3 = Acuminate

D. LENGTH

☐ 3 1 = Short (ca. 7mm) 2 = Medium (ca. 8mm) 3 = Long (ca. 9mm)

E. WIDTH

☐ 3 1 = Narrow (ca. 3mm) 2 = Medium (ca. 3.5mm) 3 = Wide (ca. 4mm)

13. SEED

A. SHAPE

☐ 1 1 = Ovate 2 = Oval 3 = Elliptical

B. CHEEK

☐ 1 1 = Rounded 2 = Angular

C. BRUSH

☐ 1 1 = Short 2 = Medium 3 = Long

☐ 1 1 = Not Collared 2 = Collared

D. CREASE

☐ 1 1 = Width 60% or less of Kernel
 1 = Width 80% or less of Kernel
 3 = Width Nearly as Wide as Kernel

☐ 2 1 = Depth 20% or less of Kernel
 2 = Depth 35% or less of Kernel
 3 = Depth 50% or less of Kernel

13. SEED: (continued)

E. COLOR

1 = White

2 = Amber

3 = Red

4 = Other (SPECIFY) _____

F. TEXTURE

1 = Absent

2 = Present

G. PHENOL REACTION (see Instructions):

1 = Ivory

2 = Fawn

3 = Light Bro 4 = Dark Bro 5 = Black

14. DISEASE: (0 = Not Tested; 1 - Susceptible; 2 - Resistant; 3 - Intermediate; 4 - Tolerant)
PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTEDStem Rust (*Puccinia graminis* f. sp. *tritici*)

Field

Stripe Rust (*Puccinia striiformis*)

Field

Tan Spot (*Pyrenophora tritici-repentis*)Halo Spot (*Selenophoma donacis*)

Septoria nodorum (Glume Blotch)

Septoria avenae (Speckled Leaf Disease)

Septoria tritici (Speckled Leaf Blotch)

Scab (*Fusarium* spp.)

"Black Point" (Kernel Smudge)

Barley Yellow Dwarf Virus (BYDV)

Soilborne Mosaic Virus (SBMV)

Wheat Yellow (Spindle Streak) Mosaic Virus

Wheat Streak Mosaic Virus (WSMV)

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

Leaf Rust (*Puccinia recondita* f. sp. *tritici*)CBGJ, CDBD, LBBR, CLLR, FBRP
MBRK, TLGF, ~~FLGG~~ TLGSLoose Smut (*Ustilago tritici*)Flag Smut (*Urocystis agropyri*)Common Bunt (*Tilletia tritici* or *T. laevis*)Dwarf Bunt (*Tilletia controversa*)Karnal Bunt (*Tilletia indica*)Powdery Mildew (*Erysiphegraminis* f. sp. *tritici*)

ASO, Pm4, Yuma

"Snow Molds"

Common Root Rot (*Fusarium*, *Cochliobolus* and *Bipolaris* spp.)Rhizoctonia Root Rot (*Rhizoctonia solani*)Black Chaff (*Xanthomonas campestris* pv. *translucens*)Bacterial Leaf Blight (*Pseudomonas syringae* pv. *syringae*)

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

Other (SPECIFY)

per letter
of 2/4/03
MAH
3/11/2003

200300005

14. DISEASE: (0 = Not Tested; 1 - Susceptible; 2 - Resistant; 3 - Intermediate; 4 - Tolerant)
PLEASE SPECIFY BIOTYPE (where needed)

Hessian Fly (*Mayetiola destructor*)

☐ 1

B, C, D, L

Stem Sawfly (*Cephus spp.*)

☐ 0

Cereal Leaf Beetle (*Oulema melanopa*)

☐ 0

Russian Aphid (*Diuraphis noxia*)

☐ 0

Greenbug (*Schizaphis graminum*)

☐ 0

Aphids

☐ 0

Other (SPECIFY) _____

☐

Other (SPECIFY) _____

☐

Other (SPECIFY) _____

☐

Other (SPECIFY) _____

☐

Other (SPECIFY) _____

☐

Other (SPECIFY) _____

☐

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

Exhibit D

Additional Description of ~~AGS 485~~ 'AGS 2485'MAH
11/20/2002

AGS 485 is a common soft red winter wheat, *Triticum aestivum* L. bred and developed by the University of Georgia, Georgia Agricultural Experiment Stations and developed jointly by Jerry W. Johnson and Ron D. Barnett with the University of Florida, Florida Agricultural Experimental Station.

AGS 485 is a medium maturing, high yielding, excellent test weight, awned wheat with resistance to current races of leaf rust, Puccinia recondita (Roberge ex Desmaz) and susceptible to predominant biotypes (biotype B, C, D, L) of Hessian flies, (Mayetiola destructor (Say), and moderately susceptible to powdery mildew, (Erysiphe graminis DC. f. sp. tritici Em. Marchal) in Georgia. AGS 485 is resistant to leaf rust races, CBGJ, CDBD, LBBR, CLLR, FBRP, MBRK TLGF, and TLGJ and susceptible to SCJF. It also possesses the 1BL/1RS translocation.

Milling and baking quality characteristics of AGS 485 are rated as acceptable for soft red winter wheat use by the USDA-Soft Wheat Quality Laboratory, Wooster, OH. Information on the milling and baking quality characteristics is also included in a quality report. Additional information is presented in attachment to the Exhibit.

ATTACHMENT IAPPLICATION FOR APPROVAL OF X CULTIVARS ASSOCIATE CULTIVARS
(Please check appropriate type of application)

1. Crop: Wheat
2. Experimental no. or name: 92485E15 'AGS 2485'
3. Pedigree and history: GA831276/GA861278 (Saluda/FL74265)/(Gore/FL302). The final cross was made in the fall of 1992. Individual spike selections were made in the F2 to F5 generations at Griffin, GA. The pedigree method of breeding was used to advance the segregating populations. In 1997, a headrow was harvested for preliminary evaluations. Agronomic evaluations were conducted from 1999 to 2001 in the Small Grain State Performance trials for Georgia. It was evaluated in 2001 in the Uniform Southern Wheat Nursery.
4. Description: 92485E15 is a medium maturing, white chaffed, medium height line with good straw strength. It matures on average 1 day earlier than AGS 2000 in Georgia. It is moderately resistant to currently predominant races of leaf rust, and moderately susceptible to susceptible to powdery mildew and biotypes of Hessian fly in Georgia.
5. Station(s) where developed: Griffin Campus
6. Participating scientist(s): Jerry Johnson, Barry Cunfer, G. David Buntin, and Dan Bland
7. In what respect is the new cultivar superior to the cultivar now in use? or reasons for proposing release as an associate cultivar.

92485E15 was approved by the Small Grain Commodity Committee for release. It is a high-yielding (Tables 1,4, 7,9), medium maturing and high test weight (Tables 2,5,8) cultivar. 92485E15 yielded equal to or better than checks in South, North and State wide Georgia in 1999 (Table 1). In 2000, 92485E15 yielded equal to the checks in North Georgia but less in South and Statewide (Table 4). In 2001, 92485E15 yielded equal to the checks in South, North, and Statewide Georgia (Table 7). In Table 9, 2-yr and 3-yr averages revealed that 92485E15 was equal to AGS 2000 and PIO 26R61 (two of the leading wheat cultivars presently grown in Georgia) for 2-Yr in North and Statewide and 3-Yr for South, North and Statewide Georgia.

In regional trials, 92485E15 performed equal to or better than the currently grown check cultivars (Coker 9835, AGS 2000, or Coker 9663) for grain yield at all locations (16 locations) and within region locations in the Southeast in

MAH
11/20/2002

2001 (Table 10). It ranked 2th out of 40 entries in 2001. AGS 2000, PIO 26R61, and USG 3209 are presently the highest yielding, medium-maturing wheat cultivar grown in the southeastern region.

92485E15 was equal to or higher for test weight than the checks (Tables 2, 5, 8). In State trials, 92485E15 was moderately resistant to both leaf rust, powdery mildew, and Hessian fly (Table 3, 6).

8. Method of propagation: Seed

9. Amount of breeder seed stocks available (if applicable): 70 bu.

10. Amount of foundation seed stocks available (if applicable): 2000 bushel in summer of 2002.

11. Amount of cutting or bud material available for vegetatively propagated material for nursery distribution (if applicable):

12. Is there likely to be unusual difficulty encountered in the production of any class of seed stocks? Explain. No

13. Three suggested names for the cultivar: 92485E15

14. Name approved by plant cultivar and germplasm release committee:

15. Form of intellectual property protection: Plant Variety Protection

16. Is a royalty assessment recommended: ☒ Yes ☐ No

92485E15

RECOMMENDED BY:

A. _____
Originating ScientistB. _____
Department HeadC. _____
Assistant DeanD. _____
Chairperson, GAES Plant Cultivar
and Germplasm Release CommitteeE. _____
Associate Dean for Research

APPROVED:

Dean and Director
College of Agricultural & Environmental Sciences

200300005

'AGS 2485'

Table 1. Average yield performance of 92485E15 and check cultivars in State Performance Trials at five locations in 1999.

 MAH
11/20/2002

Entry	Location							Average
	Tifton	Plains	Midville	South	Griffin	Calhoun	North	
92485E15	57.0	59.7	67.0	61.2b	106.0	45.3	75.6a	67.0b
AGS 2000	55.6	66.8	55.6	59.3a	98.3	48.1	73.2a	64.8b
PIO26R61	53.7	66.3	54.2	58.1c	101.3	49.2	75.2a	64.9b
USG3209	60.9	70.8	67.9	66.5a	105.1	57.4	81.2	72.4a

Table 2. Performance of 92485E15 and check cultivars in State Performance Trials for 1999.

Entry	Test Wt. lbs/bu	Lodging %	Date Headed	Height in
92485E15	60.8a	2	4/5	40
ASG 2000	58.8b	6	4/6	39
PIO26R61	60.2a	3	4/7	40
USG 3209	58.3b	1	4/7	35

Table 3. Average performance of 92485E15 and check cultivars in State Performance Trials for 1999.

Entry	Powdery Mildew	Leaf Rust %	Hessian Fly %
92485E15	R	0	0.0a
AGS 2000	R	0	4.4a
PIO 26R61	R	0	2.2a
USG 3209	R	0	33.3b

AGS 2485'

MAH
11/20/2002Table 4. Average yield performance of ~~92485E15~~ and check cultivars in State Performance Trials at five locations in 2000.

Entry	Location							Average
	Tifton	Plains	Midville	South	Griffin	Calhoun	North	
92485E15	70.2	70.4	39.3	59.9b	92.2	58.4	75.3a	66.1b
AGS 2000	74.6	83.8	54.7	81.0a	95.9	66.0	81.0a	75.0a
PI026R61	73.1	83.5	55.2	82.5a	101.5	63.4	82.5a	75.3a

Table 5. Performance of 92485E15 and check cultivars in State Performance Trials for 2000.

Entry	Test Wt. lbs/bu	Lodging %	Date Headed	Height in
92485E15	61.0a	4	4/1	41
ASG 2000	60.1b	7	4/1	41
PI026R61	60.5ab	3	4/3	43

Table 6. Average performance of 92485E15 and check cultivars in State Performance Trials for 2000.

Entry	Leaf Rust %	Hessian Fly, %	
		Plains	Griffin
92485E15	15	12.2a	21.2b
AGS 2000	1	10.4a	11.1a
PI0 26R61	0	0.0a	0.0a
USG 3209	0	40.0b	26.7b

200300005

'AGS 2485'

Table 7. Average yield performance of 92485E15 and check cultivars in State Performance Trials at five locations in 2001.

MAH
11/20/2002

Entry	Location							North Average
	Tifton	Plains	Midville	South	Griffin	Calhoun		
92485E15	87.0	81.5	72.6	80.4bc	120.6	49.4	85.0a	82.2a
AGS 2000	94.5	85.0	67.7	82.4ab	104.4	49.0	76.7a	80.1a
PI026R61	82.1	95.5	67.1	81.5ab	109.1	46.0	77.6a	79.9a
USG3209	87.9	93.7	74.5	85.3a	110.7	49.9	80.3a	83.3a

Table 8. Performance of 92485E15 and check cultivars in State Performance Trials for 2001.

Entry	Test Wt. lbs/bu	Lodging %	Date Headed	Height in
92485E15	58.2b	16	4/4	40
ASG 2000	58.5b	11	4/5	39
PI026R61	59.1a	4	4/7	40
USG 3209	57.0c	18	4/7	35

'AGS 2485'

Table 9. Average Yield Performance of ~~92485E15~~ and check cultivars in State Performance Trials for 2-Yr and 3-Yr Average (1999-2000).mH
11/20/2002

Entry	South		North		Statewide	
	2-Yr	3-Yr	2-Yr	3-Yr	2-Yr	3-Yr
92485E15	70.1b	67.2a	80.2a	78.6a	74.1a	71.8a
AGS 2000	76.7a	70.9a	78.8a	76.9a	77.5a	73.3a
PIO 26R61	76.1a	70.1a	80.0a	78.4a	77.6a	73.4a

Table 10. Average performance of 92485E15 and check cultivars in the Uniform Southern Soft Red Winter Wheat Nursery (16 Locations)+, 2001.

Entry	Yield, bu/a		Test Wt Lbs/Bu	Date Headed	Height inches
	All	Region			
92485E15	74	76	58.8	114	33
AGS 2000	74	75	58.1	114	36
C 9835	68	68	56.3	116	32
C 9633	69	69	57.7	116	36

+ States and (Number of Locations) tested: Arkansas (3), Florida (2), Georgia (2), Kansas (1), Kentucky (1), Louisiana (1), Maryland (1), Mississippi (1), Tennessee (1), Texas (2), Virginia (1).

LEAF RUST

200300005

St. Paul
MN

Reactions produced by NA race*

	CBGJ	CDBD	LBBR	CLLR	FBRP	MBRK	TLGF	TLGJ	SCJF	Postulated Genes***
1 Coker 9835	.	.	.	.	.	.	3	3	.	2a,9,11,
2 Coker 9663	.	.	.	.	.	.	.	3	.	9,10,11
3 Mason	.	.	.	.	.	.	3	3	.	9,11,+
4 AGS2000	;1cn	.	.	.	.	;1c	.	.	.	+
5 S9412192	.	.	.	.	.	;2	;3	.	.	+
6 LA90518PB43-3-1-4	;1c	;1c	.	.	.	;1c	.	;1c	;1c	+
7 LA90185G3-1-4-2	.	.	.	3	.	.	.	3	.	9,10,+
8 VA98W-593	.	.	.	;1c	.	.	.	.	.	+
9 NC96-13155	.	.	.	.	.	.	.	2c;	;1c	+
10 NC96-13965	.	.	.	.	.	.	.	2c;	;1c	+
11 B950943	.	.	.	.	.	.	.	;1c2	.	+
12 TX96D1320	.	.	.	3;	.	.	.	3	.	9,10,+
13 TX97D6737	.	.	.	;1c	.	.	.	3	.	9,10,+
14 TX91-57	;2c	;1c	.	.	2c;	3	;1c	2c;	;2c	10,11,18
15 AR839-27-13	.	.	;1c	.	.	3	3;	3	3;	1,3,10,11,+
16 AR839-25-8-2	;3	.	.	.	.	3	;1c	3;	3;	1,3,10,11,+
17 AR-LA85411	;1cn	;1c	.	.	;1c	;1c	.	;1c	;1c	+
18 LA9397D5-3-3	.	.	.	.	.	.	3;	3	3	2a,11,+
19 TX98D2106	.	.	.	.	.	.	3	3	;3	2a,11,+
20 GF90524E1	.	.	.	.	.	.	.	3	;1	9,10,11
21 GF92405E15	.	.	.	.	.	.	.	.	3;	+
22 GF921221E16	;2c	.	3;	3	;3;	3	3;	2c2;	2c3;	3,18,+
23 NC96-13156	.	.	.	.	.	.	.	3	.	9,10,11
24 AW-D97-6075	3	.	.	.	.	3-3;	3;	3;	23;	11,+
25 AW-D97*6940	.	.	.	;1c	;1c	.	.	2c;	;1c	+
26 AW-D97*6961	;1c	;1c	.	.	.	.	.	.	;2c	+
27 AW-D97-6740	3	3	.	;1c-3	3	3	3	3	3	3
28 VA98W-591	.	3-2c;	.	.	.	.	.	.	.	+
29 VA99W-200	3;	3;	.	;2c	;2c	;2	;1	3;	3	+
30 VA99W-169	3	2c;3	;2c	;2c2	;2c2	3	;3	3	3	11,+
31 TX97-167	3	;1c2	.	;1c	;1c3	3	;3	3;	3	11,+
32 SC952746	;1cn	.	.	.	.	.	.	.	.	+
33 SC960057	3;	;2	.	.	;1c	3;2	;3	31c;	3	11,+
34 B960208	.	.	.	;3	.	.	3;	3	.	9,+
35 B960457	.	.	.	.	.	.	.	.	3	2a,11,18,3
36 B961378	.	.	.	.	.	.	3;	3	.	9,10,11
37 G09088	3	;1c2	.	;1	3;	3	.	3	3	10,11
38 G09091	;1c-3	3-1c	3	3;	3;	3	3	3	3	0
39 G09080	3	3	3	3	3	3	3	3	3	0
40 G09138	2c;	.	3	;2c2	;1c	3	.	3	.	1,10,18
41 F/G921188E43	.	.	.	.	.	.	.	.	.	+
42 MDV71-19	;1c	.	.	.	.	.	.	.	;1c	+
43 MDV26-30	.	.	.	.	.	.	;3	.	.	+

* Single genes tested = *Lr1*, 2a, 2c, 3, 3ka, 9, 10, 11, 14a, 16, 17, 18, 24, 26, 30, B

**Virulence Formula:

CBGJ = 3,11,14a,18

CDBD = *Lr* 3,24,14a

LBBR = 1,10,13,B

CLLR = 3,3Ka,9,10,18,B

FBRP = 2c,3,3ka,11,14a,18,B

MBRK = 1,3,3ka,10,11,14a,18,30

TLGF = 1,2a,2c,3,9,11,14a,18

TLGJ = 1,2a,2c,3,10,11,14a

SCJF = 1,2a,2c,11,14a,17,18,26

*** + = *Lr* gene(s) present but unable to identify with these *Lr* virulence combinations

POWDERY MILDEW

200300005

Raleigh
NC

	ABK	Aso	E2-15	E3-14	F7-11	F7-12	Mo10	Pm4	Yuma
4 AGS2000	RM	RM	M	RM	R	RM	RM	R	M
15 AR839-27-1-3	S	S	S	S	S	S	S	S	S
16 AR839-25-8-2	S	S	S	S	S	S	S	S	S
17 AR-LA85411	R	R	R	R	R	R	R	RM	R
18 LA9397D5-3-3	S	S	S	S	S	S	S	S	S
19 TX98D2106	M	S	S	S	S	S	S	S	S
20 GF90524E1	M	M	R	M	M	M	RS	M	M
'AGS 2485' - 21 GF92485E15	M	S	S	S	S	M	S	S	S
22 GF921221E16	M	M	S	S	S	S	S	S	S
23 NC96-13156	S	R	S	S	R	RM	R	RS	R
24 AW-D97-6075	M	S	S	S	S	S	S	S	S
25 AW-D97-6940	S	S	S	S	S	S	S	S	S
26 AW-D97-6961	M	RM	M	S	R	RM	M	M	R
27 AW-D97-6740	S	S	S	S	S	S	M	S	S
28 VA98W-591	M	M	M	M	M	M	M	S	M
Chancellor	S	S	S	S	S	S	S	S	S
29 VA99W-200	R	R	R	R	M	S	S	S	R
30 VA99W-169	RM	R	S	S	S	M	S	S	M
31 TX97-167	S	S	S	S	S	S	S	S	S
32 SC952746	M	RM	M	S	S	R	M	RM	S
33 SC960057	S	S	S	S	S	S	S	S	S
34 B960208	S	S	S	S	S	S	S	S	RS
35 B960457	S	S	S	S	S	S	S	S	S
36 B961378	S	S	S	S	S	S	S	S	S
37 G09088	S	S	S	S	S	S	S	S	S
38 G09091	S	S	S	S	S	S	S	S	S
39 G09080	S	S	S	S	S	S	S	S	S
40 G09138	S	S	S	S	S	S	S	S	S
41 F/G921188E43	RM	M	S	S	RM	S	M	RM	R
42 MDV71-19	R	S	S	R	R	RS	M	R	R
43 MCV26-30	S	SR	RS	S	RS	RS	R	S	S
Chancellor	S	S	S	S	S	S	S	S	S

HESSIAN FLY

200300005

W. Lafayette IN

	Biotype B	Biotype C	Biotype D	Biotype E	Biotype L
1 Coker 9835	0 - 15	11 - 2	0 - 13	15 - 1	0 - 11
2 Coker 9663	2 - 11	2 - 10	6 - 5	6 - 10	0 - 12
3 Mason	0 - 15	0 - 17	0 - 13	1 - 11	0 - 11
4 AGS2000	0 - 13	0 - 13	0 - 12	0 - 12	0 - 10
5 S9412192	0 - 14	0 - 19	0 - 12	0 - 12	0 - 14
6 LA90518PB43-3-1-4	0 - 15	0 - 16	0 - 12	1 - 14	0 - 13
7 LA90185G3-1-3-4-2	0 - 12	10 - 5	0 - 14	12 - 1	0 - 12
8 VA98W-593	0 - 14	0 - 15	0 - 15	0 - 11	0 - 10
9 NC96-13155	0 - 21	0 - 10	0 - 10	1 - 13	0 - 10
10 NC96-13965	0 - 14	4 - 13	0 - 12	3 - 11	0 - 9
11 B950943	0 - 14	0 - 14	0 - 15	0 - 14	0 - 12
12 TX96D1320	11 - 1	11 - 5	0 - 14	19 - 0	0 - 10
13 TX97D6737	0 - 14	0 - 11	0 - 11	0 - 14	0 - 15
14 TX91-57	8 - 5	6 - 7	8 - 4	7 - 7	10 - 3
15 AR839-27-1-3	0 - 14	3 - 12	0 - 17	1 - 14	0 - 14
16 AR839-25-8-2	0 - 15	0 - 14	0 - 15	0 - 19	0 - 14
17 AR-LA85411	0 - 14	0 - 15	0 - 14	18 - 0	0 - 14
18 LA9397D5-3-3	0 - 13	0 - 20	0 - 18	0 - 14	0 - 16
19 TX98D2106	15 - 0	2 - 13	0 - 15	13 - 3	0 - 12
20 GF90524E1	0 - 17	0 - 11	0 - 15	2 - 13	0 - 11
21 GF92485E15	0 - 15	2 - 12	0 - 12	8 - 9	0 - 11
22 GF921221E16	0 - 15	15 - 0	10 - 1	6 - 8	1 - 8
23 NC96-13156	0 - 13	11 - 2	0 - 11	8 - 8	3 - 11
24 AW-D97-6075	0 - 13	0 - 14	0 - 15	0 - 17	0 - 16
25 AW-D97*6940	0 - 10	0 - 9	0 - 12	0 - 17	0 - 9
26 AW-D97*6961	12 - 1	0 - 15	0 - 13	17 - 0	4 - 11
27 AW-D97-6740	0 - 12	7 - 5	0 - 11	0 - 17	0 - 15
28 VA98W-591	0 - 16	0 - 13	0 - 13	1 - 15	2 - 11
29 VA99W-200	6 - 9	1 - 19	0 - 15	8 - 10	9 - 5
30 VA99W-169	0 - 18	0 - 18	0 - 12	16 - 2	3 - 11
31 TX97-167	0 - 12	6 - 12	0 - 14	9 - 8	0 - 16
32 SC952746	0 - 8	2 - 6	0 - 7	0 - 5	0 - 11
33 SC960057	12 - 0	5 - 12	0 - 12	13 - 0	0 - 19
34 B960208	14 - 0	12 - 0	4 - 8	21 - 0	13 - 1
35 B960457	15 - 1	2 - 12	0 - 13	19 - 0	2 - 11
36 B961378	12 - 1	0 - 12	0 - 14	15 - 3	0 - 11
37 G09088	12 - 0	2 - 12	0 - 12	15 - 1	0 - 9
38 G09091	14 - 7	0 - 14	0 - 17	17 - 3	0 - 13
39 G09080	12 - 2	0 - 18	0 - 16	20 - 0	0 - 10
40 G09138	0 - 16	0 - 18	0 - 17	0 - 16	0 - 11
41 F/G921188E43	0 - 16	0 - 14	0 - 11	1 - 16	1 - 13
42 MDV71-19	0 - 13	16 - 1	0 - 10	0 - 16	0 - 7
43 MDV26-30	12 - 4	3 - 14	0 - 14	11 - 5	0 - 12

AGS 2485
MAH
11/20/02

1RS STATUS

200300005

Lincoln
NE

1	Coker 9835	Non. 1RS
2	Coker 9663	Non. 1RS
3	Mason	Non. 1RS
4	AGS2000	1BL. 1RS
5	S9412192	1BL. 1RS
6	LA90518PB43-3-1-4	Non. 1RS
7	LA90185G3-1-3-4-2	Non. 1RS
8	VA98W-593	1AL. 1RS
9	NC96-13155	Non. 1RS
10	NC96-13965	Non. 1RS
11	B950943	Non. 1RS
12	TX96D1320	Non. 1RS
13	TX97D6737	Non. 1RS
14	TX91-57	Non. 1RS
15	AR839-27-1-3	Non. 1RS
16	AR839-25-8-2	Non. 1RS
17	AR-LA85411	Non. 1RS
18	LA9397D5-3-3	Non. 1RS
19	TX98D2106	Non. 1RS
20	GF90524E1	Non. 1RS
21	GF92485E15	1BL. 1RS
22	GF921221E16	Non. 1RS
23	NC96-13156	Non. 1RS
24	AW-D97-6075	Non. 1RS
25	AW-D97*6940	Non. 1RS
26	AW-D97*6961	1BL. 1RS
27	AW-D97-6740	Non. 1RS
28	VA98W-591	1AL. 1RS
29	VA99W-200	Non. 1RS
30	VA99W-169	Non. 1RS
31	TX97-167	Non. 1RS
32	SC952746	Non. 1RS
33	SC960057	Non. 1RS
34	B960208	Non. 1RS
35	B960457	Non. 1RS
36	B961378	Non. 1RS
37	G09088	Non. 1RS
38	G09091	Non. 1RS
39	G09080	1AL. 1RS
40	G09138	1BL. 1RS
41	F/G921188E43	1BL. 1RS
42	MDV71-19	1BL. 1RS
43	MDV26-30	1AL. 1RS

'AGS 2485'

MAH
11/20/2002

ADVANCED NURSERY EVALUATION FOR SOFT WHEAT MILLING AND BAKING QUALITY

200300005

STD = AVG. OF TWO MASON ENTRIES

LAB ENTRY NO.		MILLING QUALITY SCORE			BAKING QUALITY SCORE		
		REGION 1	REGION 2	MEAN	REGION 1	REGION 2	MEAN
1	Coker 9835	105.5	102.6	104.0	97.8	95.7	96.7
2	Coker 9663	95.7	91.9	93.8	92.0	85.9	89.0
3	Mason	100.6	99.4	100.0	96.3	103.8	100.0
4	AGS2000	105.9	101.7	103.8	101.0	98.2	99.6
5	S9412192	84.3	86.5	85.4	45.9	55.8	50.8
6	LA90518PB43-3-1-4	105.0	101.9	103.5	93.3	102.2	97.7
7	LA90185G3-1-3-4-2	100.0	100.9	100.4	81.2	97.9	89.6
8	VA98W-593	96.2	92.9	94.5	82.0	75.1	78.6
9	NC96-13155	102.5	100.2	101.4	101.3	99.3	100.3
10	NC96-13965	105.8	102.8	104.3	107.1	102.9	105.0
11	B950943	98.1	96.9	97.5	95.5	90.4	93.0
12	TX96D1320	95.2	93.7	94.5	89.0	90.0	89.5
13	TX97D6737	103.2	100.1	101.6	105.0	97.0	101.0
14	TX91-57	93.6	88.9	91.2	82.3	65.4	73.9
15	AR839-27-1-3	103.4	101.2	102.3	98.6	91.9	95.2
16	AR839-25-8-2	102.6	98.0	100.3	97.9	87.2	92.5
17	AR-LA85411	103.5	101.8	102.6	96.3	102.1	99.2
18	LA9397D5-3-3	102.2	101.6	101.9	106.3	102.5	104.4
19	TX98D2106	90.1	91.4	90.8	74.2	81.5	77.8
20	GF90524E1	95.3	92.1	93.7	96.3	91.7	94.0
21	GF92485E13 'AGS 2485'	98.4	97.8	98.1	85.9	89.3	87.6
22	GF921221E16	100.8	95.1	97.9	90.5	98.7	94.6
23	NC96-13156	102.2	99.9	101.0	98.3	98.8	98.6
24	AW-D97-6075	92.7	94.2	93.4	85.9	99.7	92.8
25	AW-D97*6940	101.2	97.4	99.3	84.4	99.6	92.0
26	AW-D97*6961	92.8	93.4	93.1	91.4	99.8	95.6
27	AW-D97-6740	104.8	102.9	103.9	93.9	103.5	98.7
28	VA98W-591	99.4	97.8	98.6	98.5	95.7	97.1
29	VA99W-200	101.4	103.0	102.2	108.0	101.6	104.8
30	VA99W-169	100.3	101.8	101.0	78.2	96.6	87.4
31	TX97-167	102.5	103.3	102.9	79.1	95.8	87.5
32	SC952746	95.5	94.0	94.8	49.7	36.9	43.3
33	SC960057	102.2	99.8	101.0	103.3	102.0	102.7
34	B960208	99.8	97.4	98.6	97.3	97.5	97.4
35	B960457	103.8	103.2	103.5	80.9	97.2	89.0
36	B961378	100.2	97.5	98.9	102.0	95.7	98.9
37	G09088	100.3	102.4	101.3	100.4	101.0	100.7
38	G09091	105.7	104.6	105.1	106.4	98.2	102.3
39	G09080	103.2	103.8	103.5	105.4	97.9	101.6
40	G09138	99.8	100.1	99.9	98.4	99.2	98.8
41	F/G921188E43	97.1	95.5	96.3	63.4	83.8	73.6
42	MDV71-19	102.6	99.4	101.0	84.6	94.0	89.3
43	MDV26-30	93.9	92.8	93.4	77.2	82.3	79.7
	MINIMUM	84.3	86.5	85.4	45.9	36.9	43.3
	MAXIMUM	105.9	104.6	105.1	108.0	103.8	105.0
	MEAN	99.7	98.2	99.0	90.7	92.6	91.7

200300005

HEADING DATE (Julian)

	Blacksburg VA	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1 Coker 9835	129	123	116.3	35
2 Coker 9663	128	124	115.0	25
3 Mason	125	121	112.8	5
4 AGS2000	126	121	114.1	14
5 S9412192	127	123	113.6	11
6 LA90518PB43-3-1-4	127	123	113.3	9
7 LA90185G3-1-3-4-2	128	122	114.3	17
8 VA98W-593	127	122	115.3	29
9 NC96-13155	129	125	116.7	39
10 NC96-13965	129	124	118.3	40
11 B950943	129	124	116.5	37
12 TX96D1320	129	125	116.4	36
13 TX97D6737	127	124	115.0	26
14 TX91-57	124	121	113.2	8
15 AR839-27-1-3	133	126	119.6	42
16 AR839-25-8-2	129	124	116.3	34
17 AR-LA85411	127	123	114.5	18
18 LA9397D5-3-3	127	121	112.9	7
19 TX98D2106	127	123	115.8	31
20 GF90524E1	126	122	114.6	21
21 GF92485E15 'AGS 2485'	126	123	113.7	12
22 GF921221E16	125	119	112.3	4
23 NC96-13156	129	124	116.6	38
24 AW-D97-6075	126	121	113.5	10
25 AW-D97*6940	126	121	114.1	13
26 AW-D97*6961	125	123	115.8	32
27 AW-D97-6740	123	119	111.9	2
28 VA98W-591	129	123	115.2	27
29 VA99W-200	127	119	111.9	3
30 VA99W-169	127	121	114.7	22
31 TX97-167	128	123	115.3	28
32 SC952746	125	122	114.6	20
33 SC960057	123	123	120.1	43
34 B960208	127	121	114.1	16
35 B960457	129	123	116.2	33
36 B961378	130	125	118.9	41
37 G09088	124	119	112.8	6
38 G09091	125	121	114.1	15
39 G09080	127	121	115.7	30
40 G09138	126	122	114.7	23
41 F/G921188E43	128	122	114.5	19
42 MDV71-19	127	122	114.9	24
43 MDV26-30	126	119	111.4	1
LOCATION MEANS	127.0	122.3		

MAH
11/20/2002

HEIGHT (inches)

200300005

		Prosper TX	Blacksburg VA	Warsaw VA	ENTRY MEANS ALL LOCATIONS	rank
1	Coker 9835	26.7	23	32	30.9	39
2	Coker 9663	32.0	32	37	36.4	3
3	Mason	31.7	25	36	34.7	11
4	AGS2000	28.3	25	33	33.6	21
5	S9412192	28.0	28	34	34.2	15
6	LA90518PB43-3-1-4	28.7	27	32	33.2	25
7	LA90185G3-1-3-4-2	29.3	27	36	34.1	17
8	VA98W-593	27.3	23	31	31.2	37
9	NC96-13155	28.7	23	32	32.1	33
10	NC96-13965	29.0	22	31	31.1	38
11	B950943	30.7	23	34	32.8	28
12	TX96D1320	25.0	21	27	28.1	43
13	TX97D6737	28.7	23	34	31.9	35
14	TX91-57	30.0	25	32	34.2	14
15	AR839-27-1-3	31.3	31	39	36.0	6
16	AR839-25-8-2	29.0	27	37	34.7	10
17	AR-LA85411	29.0	26	34	33.7	19
18	LA9397D5-3-3	27.7	22	31	30.5	41
19	TX98D2106	31.3	26	32	33.6	23
20	GF90524E1	26.7	21	29	30.1	42
21	GF92485E15 'AGS 2485'	31.3	25	33	33.9	18
22	GF921221E16	31.3	23	35	33.7	20
23	NC96-13156	29.7	24	32	31.9	34
24	AW-D97-6075	29.7	24	34	32.9	27
25	AW-D97*6940	30.7	26	33	33.6	22
26	AW-D97*6961	29.7	25	33	32.5	31
27	AW-D97-6740	30.3	24	33	32.8	29
28	VA98W-591	26.7	24	30	30.9	40
29	VA99W-200	27.7	25	32	32.3	32
30	VA99W-169	29.3	26	33	33.0	26
31	TX97-167	29.3	30	35	34.8	9
32	SC952746	30.3	31	38	37.6	1
33	SC960057	35.7	25	34	35.7	8
34	B960208	30.0	23	34	34.3	13
35	B960457	31.7	30	36	35.7	7
36	B961378	31.3	27	32	32.6	30
37	G09088	35.0	31	38	36.3	4
38	G09091	33.7	29	37	36.1	5
39	G09080	33.7	31	37	36.6	2
40	G09138	33.0	30	35	34.4	12
41	F/G921188E43	32.0	30	34	34.1	16
42	MDV71-19	25.7	25	32	31.3	36
43	MDV26-30	33.0	24	37	33.5	24
LOCATION MEANS		30.0	25.9	33.7		

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E

STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) University of Georgia Research Foundation, Inc. and Florida Agricultural Experiment Stations	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER GA92485E15	3. VARIETY NAME -AGS485 'A6S 2485' 11/20/02
4. ADDRESS (Street and No., or R.F.D. No., City, State, and Zip, and Country) Boyd Graduate Studies Research Center 6th Floor D. W. Brooks Drive Athens, GA 30602-7422	5. TELEPHONE (Include area code) 706-542-5944	6. FAX (Include area code) 706-542-3837
7. PVPO NUMBER 200300005		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain ☒ YES ☐9. Is the applicant (individual or company) a U.S. National or a U.S. based company? If no, give name of country ☒ YES ☐ NO10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (If needed, use the reverse for extra space):

See attached

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 6 minutes per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs on the basis of race, color, national origin, sex, religion, age, disability, political beliefs, sexual orientation, or marital or family status. (Not all prohibited bases apply to all programs). Persons with disabilities who require alternative means for communication of program information (braille, large print, audiotape, etc.) should contact the USDA's TARGET Center at 202-720-2600 (voice and TDD). To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

Exhibit E

11. Additional Explanation of Ownership

~~GA92485E15~~ 'A65 2485'MAH
11-20-02

The variety for which plant variety protection is hereby sought is owned jointly by the University of Georgia Research Foundation, Inc. (UGARF) and the Florida Agricultural Experiment Stations, University of Florida (FAES).

Ownership by UGARF in the variety for which plant variety protection is hereby sought is based on the Invention Administration Agreement of April 1, 1979, which was superseded by the Intellectual Property Administration Agreement of November 8, 1995, between UGARF and the Board of Regents of the University System of Georgia, in which the Board of Regents assigned to UGARF all rights in intellectual property developed or created by employees at The University of Georgia, one of the universities of the University System of Georgia. Rights of novel plant varieties developed at The University of Georgia, including GA92485E15, are covered by said Administration Agreement. As employees of The University of Georgia, Jerry W. Johnson, Barry Cunfer, and G. David Buntin have assigned their rights in GA92485E15 to UGARF.

Ron Barnett and Paul Pfahler are employees of the Florida Agricultural Experiment Stations, the University of Florida.